

IN THE CLAIMS:

Substitute the following claims for the pending claims having the same numbers.

1-28. (canceled)

29. (original) An optical fiber well installation system, comprising:

a first assembly;

a second assembly used to convey the first assembly at least partially into the well; and

an optical connector attached to each of the first and second assemblies, the optical connectors being connected in order to transmit light through the connected optical connectors between a first optical fiber section attached to the first assembly and a second optical fiber section attached to the second assembly.

30. (currently amended) The system of claim 29, wherein the first and second assemblies are releasably secured to each other, so that the first assembly is ~~deposited in the well while detachable from~~ the second assembly is retrieved for retrieval of the second assembly from the well.

31. (currently amended) The system of claim 30, wherein the optical connectors are ~~disconnected when~~ disconnectable

along with the first and second assemblies ~~are~~ being released for displacement relative to each other.

32. (currently amended) The system of claim 30, wherein the optical connectors are ~~disconnected when~~ disconnectable along with retrieval of the second assembly ~~is retrieved~~.

33. (original) The system of claim 29, further comprising a light transmission quality monitor connected to the second section.

34. (original) The system of claim 33, wherein the monitor measures a light transmission quality of the first section.

35. (currently amended) The system of claim 33, wherein the monitor measures a light transmission quality of the ~~first~~ second section.

36. (original) The system of claim 33, wherein the monitor measures a light transmission quality of the connected optical connectors.

37. (original) The system of claim 33, wherein the light transmission quality indicates whether the optical connectors are operatively connected.

38. (original) The system of claim 29, wherein further optical connectors are connected in the well when the first assembly is conveyed into the well by the second assembly.

39. (original) The system of claim 38, further comprising a light transmission quality monitor connected to the second section, the monitor measuring a light transmission quality of the further optical connectors connected in the well.

40. (original) The system of claim 39, wherein the light transmission quality indicates whether the further optical connectors are operatively connected.

41. (original) The system of claim 29, wherein the optical connectors are positioned above an anchor on the first assembly, the anchor securing the first assembly in the well.

42. (original) The system of claim 41, wherein the anchor is a tubing hanger.

43. (original) The system of claim 41, wherein the optical connectors are positioned between the anchor and a light transmission quality monitor connected to the first section.

44. (original) The system of claim 29, wherein the first assembly is a production tubing string and the second assembly is a work string.

45. (original) The system of claim 44, wherein the production tubing string engages a completion string in the well, thereby connecting further optical connectors in the well.

46. (original) The system of claim 45, wherein a light transmission quality monitor is connected to the first section.

47. (original) The system of claim 46, wherein the monitor measures a quality of light transmission through the optical connectors attached to the work and production tubing strings, through the first and second sections, and through the further optical connectors connected in the well.

48. (currently amended) The system of claim ~~42~~ 45, wherein the completion string is gravel packed in the well.

49. (original) The system of claim 48, wherein an optical transmission quality of a third optical fiber section attached to the completion string is monitored while the completion string is gravel packed in the well.

50. (original) The system of claim 48, wherein an optical transmission quality of a third optical fiber section attached to the completion string is monitored after the completion string is gravel packed in the well.

51-57... (canceled)